

Title (en)
Refrigerating device

Title (de)
Kühlvorrichtung

Title (fr)
Dispositif de réfrigération

Publication
EP 2154450 B1 20180829 (EN)

Application
EP 09162388 A 20090610

Priority
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Abstract (en)
[origin: EP2154450A2] In a refrigerating device (1A) comprising: a compressor (11) that is driven by a motor (18); a refrigerant circulation flow passage that includes an oil separator/collector (12), a condenser (13), an expansion valve (14), and an evaporator (15); and an oil flow passage (3) that conducts oil in the oil separator/collector (12) to a bearing (33,34,35) of the compressor, an oil supply opening (19) is provided for a motor casing (39) that stores the motor (18), an oil supply line (20) for supplying oil from an oil sump (16) of the refrigerant circulation flow passage on the discharge side of the compressor to the oil supply opening (19) is provided, oil is supplied to the oil supply opening through the oil supply line, and oil is distributed across surfaces of windings (43,44) of the motor. An internal pressure of the motor casing (39) is lower than a pressure in the oil sump (16) in the refrigerant circulation flow passage on the discharge side of the compressor, consequently oil is easily distributed across the entire motor casing. In this refrigerating device, the insulation capability of the motor does not decrease with the elapse of time.

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